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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,427	01/17/2006	J. Donn Hethcock	0837RF-H552-US	5925	
	7590 10/20/200 S OF JAMES E. WAL		EXAMINER		
1169 N. BURLESON BLVD.			AFTERGUT, JEFF H		
SUITE 107-328 BURLESON, TX 76028			ART UNIT	PAPER NUMBER	
			1791		
			MAIL DATE	DELIVERY MODE	
			10/20/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/533,427	HETHCOCK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jeff H. Aftergut	1791	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	rith the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUN FR 1.136(a). In no event, however, may a on. period will apply and will expire SIX (6) MO statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this comm NBANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☐ 3) ☐ Since this application is in condition for all closed in accordance with the practice uncondition.	This action is non-final. owance except for formal ma	· •	erits is
Disposition of Claims			
4) ☐ Claim(s) 22-28 and 32-44 is/are pending i 4a) Of the above claim(s) 27,28 and 32-44 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 22-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction a	is/are withdrawn from consid	eration.	
Application Papers			
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the c	accepted or b) objected to the drawing(s) be held in abeya prrection is required if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR ²	
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in a priority documents have been ureau (PCT Rule 17.2(a)).	Application No n received in this National Sta	age
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94: 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	8) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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Art Unit: 1791

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I, claims 22-26 in the reply filed on 8-20-08 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. Claims 27, 28 and 32-44 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 8-20-08.

Claim Rejections - 35 USC § 102/103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 22-26 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sidles for the same reasons as expressed in paragraph 7 of the Office action dated March 20, 2008.

Response to Arguments

5. Applicant's arguments filed August 20, 2008 have been fully considered but they are not persuasive.

Regarding claims 22-26, the applicant essentially presents only a single argument (that the claims stand or fall on). Applicant addresses whether the reference to Sidles teaches a step of "infusing a resin material through each perform and the

overlapping Z-direction fibers and loops" and takes the position that there is no "infusing" taught by Sidles because "infusing" requires that one take dry (without resin) fiber perform and place it into a mold and close the mold followed by injecting into the mold a resin so that the preform is fully wetted with resin. While this is certainly one definition of the manner in which infusion takes place, the specification did not positively define "infusing" in a positive manner (i.e., the term "infusing" as used herein means...). As such, it is reasonable to look to what one of ordinary skill in the art would take "infusing" to mean in its broadest reasonable interpretation. Here, the term 'infusing" as taken from dictionary.com is taken to include "to introduce, as if by pouring; to cause to penetrate" (Dictionary.com Unabridged), "To put into or introduce as if by pouring", "To fill or cause to be filled with something" (American Heritage Dictionary). The reference to Sidles suggested that:

"The first and second plies 15, 20 are stacked so that the binder 40 is dispersed between the plies and such that the fibers of the first ply 15 will cooperate with the fibers 30 of the second ply 20." (column 2, lines 45-51), and;

"Upon the application of proper conditions, i.e., heat and pressure, the binder 40 sets to form a matrix which substantially impregnates the plies. To the extent that the binder 40 is located between the plies, it can be said to be "sandwiched" between the plies. Of course is should be understood that this term contemplates complete saturation as well as discrete layers of binder and ground cloth and all degrees of penetration therebetween. By "substantially impregnates" it is anticipated that the matrix will substantially fill the interstices between the fibers. It is preferred that the composite has no porosity and that the matrix saturates the substrate 22. " (emphasis added).

Clearly, Sidles performed a process of introducing (upon proper conditions of heat and pressure) and/or causing the matrix material to infiltrate the interstices between the fibers of the reinforcement layers where the matrix was applied to the dry fabric

preforms and heat and pressure applied to infiltrate the dry preforms and completely impregnate the same. As the specification as originally disclosed does not define a mold into which the resin is injected in order to infiltrate the dry performs with resin, it is not believed that the term "infusing" is entitled to the limited meaning applicant is attempting to impart to the same. Since the reference to Sidles clearly "substantially impregnates" the preforms wherein the interstices between the fibers are filled with matrix by application of proper conditions, i.e., heat and pressure, the reference to Sidles clearly "infuses" the resin into the preforms within the meaning of the term and within the scope of the claim.

No claims are allowed.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Aftergut whose telephone number is 571-272-1212. The examiner can normally be reached on Monday-Friday 7:30-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 571-272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeff H. Aftergut/ Primary Examiner Art Unit 1791

JHA October 15, 2008